

IN THE CLAIMS

1. (Currently Amended) A routing system comprising:

(A) an active system routing device including:

a storage unit storing a first address and a second address in away that maps the first address and the second address to each other on the basis of a registration request sent from a mobile node having the first address and the second address, the registration request containing the first address and the second address mapping to each other;

a general data forwarding unit forwarding general data to the second address according to said storage unit; and

a registration request forwarding unit forwarding the registration request to a standby system routing device;

where said storage unit further stores a value of priority level corresponding to the first address or the second address, and

said registration request forwarding unit controls a process of forwarding the registration request in accordance with the value of priority level stored on said storage unit in a way that corresponds the value of priority level to the first address or the second address which are contained in the registration request; and

(B) a standby system routing device, in addition to a storage unit and a general data forwarding unit corresponding to those included in said active system routing device, including:

a monitoring unit monitoring a status of said active system routing device; and

a switchover unit switching over said standby system routing device to an active system if said monitoring unit judges that a fault occurs in said active system routing device.

2. (original) A routing system according to claim 1, wherein said active system routing device further includes a registration acknowledgement sending unit sending a registration acknowledgement to the registration request to said mobile node, and

said standby system routing device further includes an acknowledgement stopping unit which stops sending registration acknowledgement to the forwarded registration request.

3.(original) A routing system according to claim 1, wherein said monitoring unit monitors the status of said active system routing device by use of ICMP (Internet Control Message Protocol).

4. (original) A routing system according to claim 1, wherein said registration request forwarding unit forwards a part of the registration request received by said active system routing device to said standby system routing device.

5. (Cancelled)

6. (Currently Amended) A routing system according to ~~claim 5~~claim 1, wherein said registration request forwarding unit controls, based on the value of priority level, whether the registration request is forwarded or not.

7. (Currently Amended) A routing system according to ~~claim 5~~claim 1, wherein said registration request forwarding unit controls, based on the value of priority level, the registration request to be forwarded each time the registration request is received, or the registration request to be forwarded once for a plurality of receipts thereof.

8. (original) A routing system according to claim 1, wherein said storage unit further stores statistic information corresponding to the first address or the second address,

said active system routing device further includes a statistic information collecting unit collecting the statistic information on communications performed between said mobile node and said active system routing device and storing said storage unit with the collected statistic information, and

said registration request forwarding unit controls a process of forwarding the registration request in accordance with a value of the statistic information stored, mapping to the first address or the second address contained in the registration request, on said storage unit.

9. (original) A routing system according to claim 8, wherein said registration request forwarding unit controls, based on the value of the statistic information, whether the registration request is forwarded or not.

10. (original) A routing system according to claim 8, wherein said registration request forwarding unit controls, based on the value of the statistic information, the registration request to be forwarded each time the registration request is received, or the registration request to be forwarded once for a plurality of receipts thereof.

11. (original) A routing system according to claim 1, wherein said active system routing device further includes a load information obtaining unit obtaining load information of said active system routing device, and

said registration request forwarding unit further controls the process of forwarding the registration request on the basis of the load information obtained by said load information obtaining unit.

12. (original) A routing system comprising:

(A) an active system routing device including:

a storage unit storing a first address and a second address in a way that maps the first address and the second address to each other on the basis of a registration request sent from a mobile node having the first address and the second address, the registration request containing the first address and the second address mapping to each other;

a general data forwarding unit forwarding general data to the second address according to said storage unit; and

an address transmitting unit transmitting the second address stored on said storage unit to a standby system routing device; and

(B) a standby system routing device, in addition to a storage unit and a general data forwarding unit corresponding to those included in said active system routing device, including:

a registering unit registering said storage unit with the second address received from said active system routing device;

a monitoring unit monitoring a status of said active system routing device;

a switchover unit switching over said standby system routing device to an active system if said monitoring unit judges that a fault occurs in said active system routing device; and

a transmission request unit sending a transmission request for transmitting the registration request to the second address stored on said storage unit when said switchover unit

executes the switchover.

13.(original) A routing system according to claim 12, wherein said storage unit further stores a value of priority level corresponding to the first address or the second address, and

said address transmitting unit controls the transmitting process in accordance with the value of priority level.

14.(original) A routing system according to claim 12, wherein said storage unit further stores statistic information corresponding to the first address or the second address,

said active system routing device further includes a statistic information collecting unit collecting the statistic information on communications performed between said mobile node and said active system routing device and storing said storage unit with the collected statistic information, and

said address transmitting unit controls the process of transmitting the second address in accordance with the value of the statistic information.

15.(original) A routing system according to claim 12, wherein said active system routing device further includes a load information obtaining unit obtaining load information of said self-device, and

said address transmitting unit further controls the process on the basis of the load information obtained by said load information obtaining unit.

16. (original) A routing system according to claim 12, wherein said storage unit further stores a

value of priority level corresponding to the first address or the second address,

said address transmitting unit further transmits, in addition to the second address, the value of priority level,

said registering unit further registers said storage unit with the value of priority level mapping to the second address, and

said transmission request unit controls the process of sending the transmission request in accordance with the value of priority level.

17. (original) A routing system according to claim 12, wherein said storage unit further stores statistic information corresponding to the first address or the second address,

said active system routing device further includes a statistic information collecting unit collecting the statistic information on communications performed between said mobile node and said active system routing device and storing said storage unit with the collected statistic information,

said address transmitting unit further transmits, in addition to the second address, the statistic information,

said registering unit further registers said storage unit with the statistic information mapping to the second address, and

said transmission request unit controls the process of sending the transmission request in accordance with the statistic information.

18. (Currently Amended) A routing system comprising:

(A) an active system routing device including:

a storage unit storing a first address and a second address in a way that maps the first address and the second address to each other on the basis of a registration request sent from a mobile node having the first address and the second address, the registration request containing the first address and the second address mapping to each other; ~~and~~

a general data forwarding unit forwarding general data to the second address according to said storage unit; and

a registration acknowledgement sending unit sending a registration acknowledgement to the registration request to said mobile node;

(B) a standby system routing device including a storage unit corresponding to the storage unit included in the active device, ~~and~~ a general data forwarding unit corresponding to the general data forwarding unit ~~included in the active device~~ and a registration acknowledgement sending unit corresponding to the registration acknowledgement sending unit included in the active device; and

(C) an allocating device including:

an allocation storage unit storing the first address of said mobile node and addresses of said active system routing device and of said standby system routing devices in a way that maps these addresses to each other; and

a registration request forwarding unit forwarding, the registration request to said addresses of said active system routing device and said standby system routing device, said addresses mapping to the first address contained in the received registration request,

wherein said allocating device further includes a discarding unit discarding the registration acknowledgement sent from said standby system routing device.

19. (Cancelled)

20. (Original) A routing system according to claim 18, wherein said allocation storage unit further stores a priority level corresponding to the first address, and

said registration request forwarding unit controls a process of forwarding the registration request in accordance with a value of priority level stored, mapping to the first address contained in the registration request, on said allocation storage unit.

21. (Original) A routing system according to claim 1, wherein the first address is an address used by said mobile node in a network where said active system routing device and said standby system routing device are located, and

the second address is an address used by said mobile node in a network different from the network where said active system routing device and said standby system routing device are located.

22. (Currently Amended) An active system routing device comprising:

a storage unit storing a first address and a second address in a way that maps the first address and the second address to each other on the basis of a registration request sent from a mobile node having the first address and the second address, the registration request containing the first address and the second address mapping to each other;

a general data forwarding unit forwarding general data to the second address according to said storage unit; ~~and~~

a registration request forwarding unit forwarding the registration request to ~~said a~~ standby

system routing device;

wherein said storage unit further stores a value of priority level corresponding to the first address or the second address, and

said registration request forwarding unit controls a process of forwarding the registration request in accordance with the value of priority level stored on said storage unit in a way that corresponds the value of priority level to the first address of the second address which are contained in the registration request.

23. (Currently Amended) A standby system routing device comprising:

a receiving unit receiving, from an active system routing device, a registration request containing a first address and a second address held by a mobile node;

a storage unit storing the first address and the second address in a way that maps the first and second addresses to each other on the basis of the registration request received;

a general data forwarding unit forwarding general data to the second address according to said storage unit;

a monitoring unit monitoring a status of said active system routing device; ~~and~~

a switchover unit switching over said standby system routing device to an active system if said monitoring unit judges that a fault occurs in said active system routing device; and

a transmission request unit sending a transmission request for transmitting the registration request to the second address stored on the storage unit when said switchover unit executes the switchover.

24. (Currently Amended) A network system comprising:

· an active system home agent (HA) updating a control table upon receiving a location registration message, judging in accordance with a value of priority level corresponding to the location registration message whether the location registration message is forwarded to a standby system home agent (HA) and forwarding the location registration message to the a standby system home agent (HA); and

a standby system home agent (HA) updating a backup control table upon receiving the location registration message.